

## ATTACHMENT J – PRIORITY POLLUTANT METAL MONITORING REQUIREMENTS

- I. **Background.** The Lahontan Water Board has determined that, based on priority pollutant data collected from concentrated aquatic animal production (CAAP) facilities, discharge of priority pollutants other than metals is unlikely. Accordingly, the Lahontan Water Board is requiring, as part of the Monitoring and Reporting Program, that the Discharger sample the effluent and analyze the samples for priority pollutant metals. Sections 2.4.1 through 2.4.4 of the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP) provide minimum standards for analyses and reporting. (Copies of the SIP may be obtained from the State Water Resources Control Board or downloaded from [http://waterboards.ca.gov/water\\_issues/programs/state\\_implementation\\_policy/docs/final.pdf](http://waterboards.ca.gov/water_issues/programs/state_implementation_policy/docs/final.pdf).) Upstream receiving water pH and hardness are required to evaluate the toxicity of metals where the toxicity of the constituents varies with pH and/or hardness.
- II. **Monitoring Requirements.** Priority pollutant metal samples shall be collected for the influent at Monitoring Locations INF-001 and INF-002, effluent at Monitoring Location EFF-001, and upstream receiving water at Monitoring Location RSW-001 and analyzed for the metals listed in Table J-1 **one time in the year 2021 and reported to the Lahontan Water Board no later than February 1, 2022 in the SMR, and included in the ROWD.**
- III. **Monitoring Plan.** By **September 1, 2020**, the Discharger shall submit a Priority Pollutant Metal Monitoring Plan electronically via CIWQS submittal outlining reporting levels (RLs), method detection limits (MDLs), and analytical methods for the priority pollutant metals identified in Attachment J. Three months prior to collecting the required Priority Pollutant Metal samples, the Discharger shall notify the Water Board of the ELAP-certified laboratory to be used that can conduct the analysis within the holding times specified in the approved methods in 40 C.F.R. part 136. The Discharger shall comply with the monitoring and reporting requirements for the priority pollutant metals as outlined in section 2.3 and 2.4 of the SIP. The maximum required reporting levels for the priority pollutant metals shall be based on the Minimum Levels (MLs) contained in Appendix 4 of the SIP, determined in accordance with Section 2.4.2 and Section 2.4.3 of the SIP. In accordance with Section 2.4.2 of the SIP, when there is more than one ML value for a given substance, the Lahontan Water Board shall include as RLs, in the permit, all ML values, and their associated analytical methods, listed in Appendix 4 that are below the calculated effluent limitation. The Discharger may select any one of those cited analytical methods for compliance determination. If no ML value is below the effluent limitation, then the Lahontan Water Board shall select as the RL, the lowest ML value, and its associated analytical method, listed in Appendix 4 for inclusion in the permit. Table J-1 provides required maximum reporting levels in accordance with the SIP.

**Table J-1. List of Required Priority Pollutant Metals<sup>1</sup>**

Constituent	Controlling Water Quality Criterion for Surface Waters		Maximum Reporting Level <sup>2</sup> µg/L
	Basis	Criterion Concentration µg/L	
Antimony	Primary MCL	6.0	5
Arsenic	Primary MCL	10	10
Beryllium	Primary MCL	4	2
Cadmium	CTR Aquatic Life	2.9	0.5
Chromium (III)	CTR Aquatic Life	240	50
Chromium (VI)	CTR Aquatic Life	11	10
Copper	CTR Aquatic Life	11	0.5
Lead	CTR Aquatic Life	4.1	2

Mercury	CTR Human Health	0.050	0.0002
Nickel	CTR Aquatic Life	62	50
Selenium	CTR Aquatic Life	5	5
Silver	CTR Aquatic Life	5.6	2
Thallium	CTR Human Health	1.7	1
Zinc	CTR Aquatic Life	140	20

<sup>1</sup> Monitoring shall be conducted according to test procedures approved under 40 C.F.R. part 136.

<sup>2</sup> The reporting levels required in this table for priority pollutant constituents are established based on section 2.4.2 and Appendix 4 of the SIP.

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- II. **Monitoring Requirements.** Priority pollutant metal samples shall be collected for the effluent at Monitoring Location EFF-001 and analyzed for the metals listed in Table J-1 one time in the year 2020 and reported to the Lahontan Water Board no later than February 1, 2021 in the SMR, and included in the Report of Waste Discharge.

TABLE J-1. List of Required Priority Pollutant Metals

Constituent	Controlling Water Quality Criterion for Surface Waters		Criterion Quantitation Limit µg/L	Suggested Test Method
	Basis	Criterion Concentration µg/L		
Arsenic	Ambient Water Quality	0.018	0.01	EPA 1632
Barium	Primary MCL	1,000	100	EPA 6020/200.8
Beryllium	Primary MCL	4	1	EPA 6020/200.8
Cadmium	Public Health Goal	0.07	0.25	EPA 1638/200.8
Chromium (total)	Primary MCL	50	2	EPA 6020/200.8
Chromium (VI)	Draft Public Health Goal	0.02	0.5	EPA 7199/1636
Copper	National Toxics Rule	6.5	0.5	EPA 6020/200.8
Cyanide	National Toxics Rule	5.2	5	EPA 9012A
Iron	Secondary MCL	300	100	EPA 6020/200.8
Lead	Calif. Toxics Rule	1.8	0.5	EPA 1638
Mercury	Calif. Toxics Rule	0.050	0.0002	EPA 1669/1631
Manganese	Secondary MCL	50	20	EPA 6020/200.8
Nickel	Calif. Toxics Rule	36	5	EPA 6020/200.8
Selenium	Calif. Toxics Rule	5	5	EPA 6020/200.8
Silver	Calif. Toxics Rule	1.9	1	EPA 6020/200.8
Thallium	National Toxics Rule	1.7	1	EPA 6020/200.8
Tributyltin	Ambient Water Quality	0.063	0.002	EV-024/025
Zinc	Calif. Toxics Rule	83	10	EPA 6020/200.8